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## WHAT IS CLAIMED IS:

1		1.	A method for fabricating a sensor on a substrate having a pair of			
2	electrodes, said method comprising:					
3	depositing a first layer of conducting material onto said substrate having a					
4	pair of electrodes; and					
5	,	depositing a second layer of polymer film onto said first layer of				
6	conducting material thereby fabricating said sensor.					
		_				
1		2.	The method according to claim 1, wherein said conducting material			
2	comprises carbon black.					
1	:	3.	The method according to claim 1, wherein said deposition of said			
2	conducting material is by aerosol spraying.					
1		4.	The method according to claim 2, further comprising drying said			
2	carbon black before deposition of said second layer.					
1		5.	The method according to claim 2, wherein said carbon black layer			
2			en about 0.01 micron to about 10 microns.			
2	nas a unickness	betwe	en about 0.01 inicron to about 10 inicrons.			
1		6.	The method according to claim 5, wherein said carbon black layer			
2	has a thickness between about 0.1 micron to about 1 micron.					
1		7.	The method according to claim 1, further comprising depositing			
2	said first layer of conducting material through a mask.					
1	:	8.	The method according to claim 7, wherein said mask comprises a			
2	plurality of ape	rtures.				
	1		•			
1	!	9.	The method according to claim 1, wherein said deposition of said			
2	first layer of conducting material comprises robotic amateur.					
1		10.	The method according to claim 1, wherein said deposition of said			
2						
4	second layer of said polymer film comprises robotic amateur.					

 ${\bf 11.} \qquad \hbox{The method according to claim 1, further comprising depositing said second layer of polymer film through a mask.}$ 

1	12. The method according to claim 11, wherein said mask comprises	a			
2	plurality of apertures.				
1	13. The method according to claim 1, further comprising processing				
2	said second layer of polymer film after depositing upon said first layer of conducting				
3	material.				
1	14. The method according to claim 13, wherein said processing is a				
2	member selected from the group consisting of vacuum processing, photo-active				
3	polymerization and cross-linking.				
1	15. The method according to claim 1, wherein said sensor is an array	,			
2	of sensors having a first sensor and a second sensor.				
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1	16. The method according to claim 15, wherein said first sensor is				
2	compositionally different than said second sensor.				
1	17. The method according to claim 15, wherein said first sensor has a	a			
2	different polymer film layer than said second sensor.				
	and below polymon and agent and below.				
1	<ol><li>The method according to claim 1, wherein said substrate comprise</li></ol>	ses			
2	a dielectric material.				
1	19. The method according to claim 1, wherein said substrate further				
2	comprises a member selected from the group consisting of a heater, a thermistor and a				
3	combination thereof.				
1	20. The method according to claim 1, wherein said substrate further				
2	comprises a member selected from the group consisting of a temperature probe, humidi	ty			
3	probe and a combination thereof.				
1	21. A method for fabricating a sensor on a substrate having a pair of				
2	electrodes, said method comprising:				
3	depositing a first layer of conducting material onto said substrate having	a			
4	pair of electrodes to form a substrate having a conducting material disposed thereon;				
5	processing said substrate having a conducting material disposed thereon	fo			
-	pro-round out calcourt				

7	depositing a second layer of polymer film onto said first layer of					
8	conducting material to form a fabricated sensor; and					
9	processing said fabricated sensor to cure said second layer of polymer					
10	film.					
1		22.	The method according to claim 21, wherein said sensor is an array			
2	of sensors.					